CHARGE NUMBER: 1101

PROGRAM TITLE: ENTOMOLOGICAL RESEARCH

PERIOD COVERED: August 1-31, 1981

PROJECT LEADER: M. A. Manzelli

DATE OF REPORT: September 8, 1981

I. INSECT GROWTH REGULATOR

A. Stemmery 5 ppm KABAT® Study

Bright strips treated nine months previously (November, 1980) at a 5 ppm methoprene level were assayed both chemically and biologically. Results were as follows:[1]

Tobacco	Methoprene, ppm	Beetle Emergence
Control	0	39%*
Treated	5	0
Treated	5	0
Treated	6	0
Treated	5	0

*Adult beetles still emerging.

B. Methoprene Residue in Cigarettes

A study has been initiated to determine the methoprene residue in cigarettes made from tobacco treated with 5 ppm methoprene. Tobacco from the 1980 stemmery treatments and from the 1981 season have been employed to make the blends.[2]

C. Maury Street Warehouses/KABAT® Study

Twenty one weeks of trap counting has given the following data:[3]

Treatment	Beetles per Warehouse per week
None (Control)	1700
Standard (PH_3 and DDVP)*	17
KABAT®**	17

*One PH_3 treatment plus 105 to 147 DDVP treatments.

**One KABAT® treatment.

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II. CIGARETTE BEETLE PHYSIOLOGICAL STUDIES

Field studies (warehouse) with the PM synthesized sex pheromone are underway. The Japanese sex pheromone product (Serricornin) is being tested concurrently.[4]

III. ASSISTANCE TO OTHERS

A. Efficacy Study of Automatic DDVP Dispensers

At the request of the Leaf Department, the automatic DDVP dispensers in four of our storage locations were tested for adult beetle kill (Park 500, Alleghany, Star, and Maury Street). The mortality data obtained showed that the devices were effective.[5]

B. Phytosanitary Certification Efficacy Tests

The 20th Street Guardite unit and Thermovac Chambers were tested for beetle kill efficacy as part of the phytosanitary certification requirements. All exposed beetle larvae and adults were killed.[6]

IV. REFERENCES

1. Lehman, R. M. Notebook No. 7235, pp. 173-4.
2. Lehman, R. M. Notebook No. 7235, p. 175.
3. Minor, M. F. Notebook No. 7197, p. 107.
4. Long, J. S. Notebook No. 7283, pp. 167-8.
5. Long, J. S. Memo to H. L. Wright. 1981 August 25.
6. Lehman, R. M. Notebook No. 7235, p. 176.

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